

PUFFERMAS® 1

HEATING WATER BUFFER TANK WITH MACS® MODULE FOR IMMEDIATE D.H.W. PRODUCTION



APPLICATION

Storage of heating hot water and immediate production of D.H.W. high flow rate.

MATERIAL

Mild steel construction with exterior paint. No anti-corrosion treatment required due to the buffer's closed circuit system.

D.H.W. HEAT EXCHANGER

Plate to plate stainless steel exchanger in external MACS® module for immediate D.H.W. production.

TECHNICAL DESCRIPTION

The immediate and fast production of D.H.W. granted by the outside system steel plate exchange allows the following benefits:

- to reduce dimensions of the water heater needed
- easy maintenance
- maximum hygiene for anti-legionellosis bacteria's
- to produce more DHW than the quantity obtained by boiler with

similar capacity because heating hot water is stored at an higher temperature than DHW

INSULATION

Buffer tank: High thermal insulation with ecological hard polyurethane foam. Models 800-1000 available with dismountable hard foam insulation

MACS® module: insulating PPE cover.

Grey PVC external lining

WARRANTY

5 years (tank)

See general sales conditions and warranty for electrical parts.

ACCESSORIES AND SPARE PARTS

See Accessories section for the entire list.

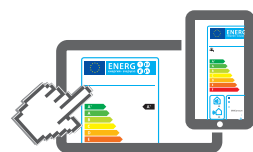


HARD FOAM INSULATION

PATENTED

PUFFERMAS® 1 VB

Model	MACS® module maximum output	HARD FOAM insulation Art. Nr.	SLB heat exchanger model / plates nr.	ENERGY EFFICIENCY CLASS ErP
500	70 kW	3251162314703	SLB20 / 34	C
600		3251162314704		C
800		3251162314705		C
1000		3251162314706		C
1500		3251162314707		C
1000	120 kW	3251162314708	SLB40/ 40	C
1500		3251162314709		C



On line ErP label tool

Model	DHW Station max output (*) [kW]	DHW Station max flow rate (*) [l/min]	Max DHW availability (10-45°C) with storage at 70°C [litres]
500	70 kW	30	511
600		30	614
800		30	983
1000		30	1100
1500		30	1680
1000	120 kW	50	1503
1500		50	2254

(*)Data obtained under the following conditions:

- Primary water at 80°C
- DHW production from 10°C to 45°C.

Accessories on request

Thermometer

Art. Nr.
5032240000107
5 units box



Recirculation kit

Art. Nr.
5221000000054
Control display + pump (for D.H.W.)



Buffer tanks connecting kit

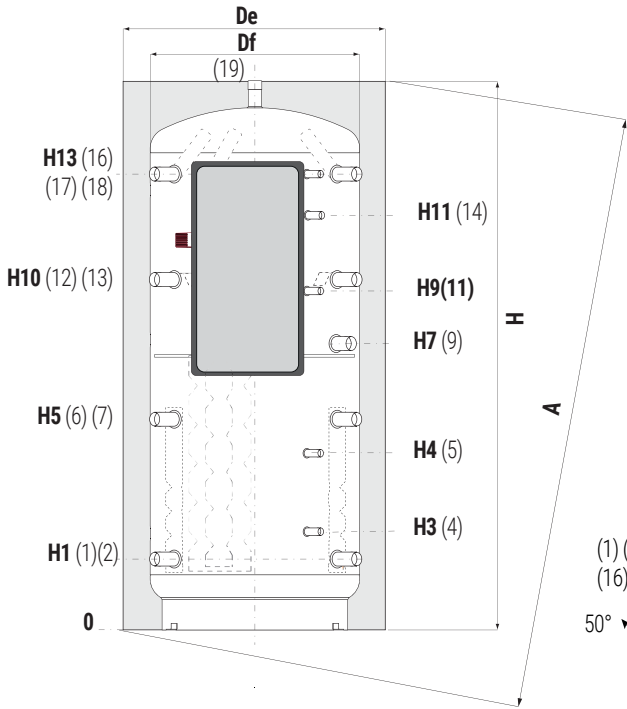
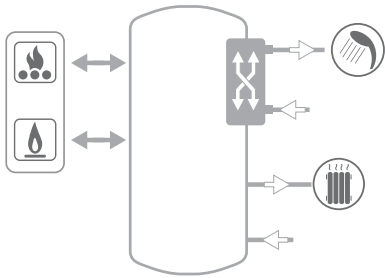
Art. Nr.	Connection
5006170001001	1" 1/2
Stainless steel extensible connecting kit - (200 ÷ 400 mm)	



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Table with 3 columns: STORAGE, STAINLESS STEEL PLATE HEAT EXCHANGER (MACS®), D.H.W. HARDNESS. Rows include Pmax, Tmax, and F max values.

CORDIVARI Lab
TÜV Rheinland Energie und Umwelt GmbH states that test procedures and Cordivari LAB are certified conforming to European standard EN 15332, as indicated by Ecodesign ErP Directive.



- 1-2-6-7 Heating return/To Generator 1 1/2" Gas F
- 4 - 5 Connection for instrumentation 1/2" Gas F
- 9 Electrical immersion 1 1/2" Gas F
- 11 Connection for instrumentation 1/2" Gas F
- 12-13-16-18 Heating delivery/ Heating return 1 1/2" Gas F
- 14 - 17 Connection for instrumentation 1/2" Gas F
- 19 Heating delivery 1 1/2" Gas F
- 20 Domestic cold water circuit inlet 3/4" Gas M (1" Gas M for models 120kW)
- 21 Domestic hot water circuit outlet 3/4" Gas M (1" Gas M for models 120kW)

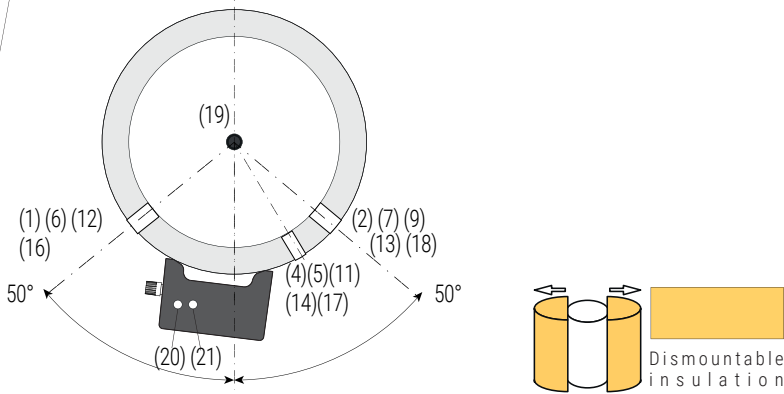
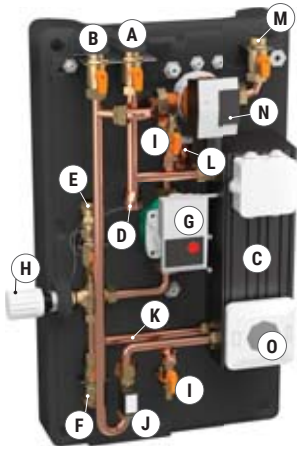


Table with 13 columns: Model, Volume [lt], De, H, A, H1, H3, H4, H5, H7, H9, H10, H11, H13. Rows for models 500, 600, 800, 1000, and 1500.

MACS® MODULE FOR IMMEDIATE D.H.W. PRODUCTION



- A Domestic Hot Water exit
 - B Domestic Water entry
 - C Stainless Steel Plate Exchanger
 - D Control for thermostatic head
 - E Heating water inlet from the buffer
 - F Heating water back to the buffer
 - G "Energy Saving" Circulation Pump
 - H Thermostatic Valve
 - I Valves In/Out for DHW
 - J Flow switch for DHW
 - K Return to primary circuit
 - L Purge valve
- D.H.W. recirculation kit (optional)
- M Connection for D.H.W. recirculation (optional)
 - N Recirculation pump (optional)
 - O D.H.W. recirculation control display (optional)

MACS® module is an external unit that immediately produces hot domestic water, using the heat energy stored in the Buffer thanks to the stainless steel plate exchanger, granting safety and comfort with the possibility to regulate outlet temperature. MACS® module is equipped with a thermostatic mixer in the heating water inlet (primary) from the buffer avoiding the plate exchanger to overheat reducing risk of formation of calcium deposit.



P.E.D. product designed and produced in conformity to the article 4.3 of directive 2014/68/UE - ErP Ecodesign directive 2009/125/CE

EXTRA-BOLLY® CALORIFIERS
BOLLYTERM® CALORIFIERS
STAINLESS STEEL CALORIFIERS
CALORIFIERS FOR HEAT PUMP
MULTIFUEL ENERGY CYLINDERS - PUFFER
HYDRONIC
INERTIAL TANKS
WATER PRESSURE TANKS
COMPRESSED AIR RECEIVERS
ACCESSORIES AND SPARE PARTS
TECHNICAL SUPPORT